

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended): A computer-implemented method of enhancing a video image, comprising:

extracting a sequence of video frames;

upsampling each of the video frames;

interpolating the upsampled video frames;

detecting at least one region of interest in the video frames;

aligning the interpolated video frames using the detected at least one region of interest in the video frames; and

creating a single image from the aligned video frames.

2. (canceled).

3. (previously presented): The method of claim 1, wherein said upsample step is by a factor of 4.

4. (previously presented): The method of claim 1, wherein said align step comprises aligning the video images in an x direction and a y direction in a center portion of interest in each video frame.

5. (previously presented): The method of claim 1, comprising extracting the sequence of video frames at 30 frames/sec.

6. (previously presented): The method of claim 1, wherein the sequence of video frames includes 5 video frames.

7. (previously presented): The method of claim 1, comprising correlating the upsampled video images.

8. (previously presented): The method of claim 7, comprising averaging a pixel intensity from each of the upsampled video frames.

9. (previously presented): The method of claim 1, comprising compensating for platform movement and rotation zoom.

10. (canceled)

11. (previously presented): The method of claim 1, comprising identifying commonality from one individual frame to the next and overlapping the individual frames and displaying an image representing a continuous area.

12. (previously presented): The method of claim 11, comprising extracting the sequence of video frames at 30 frames/sec.

13. (previously presented): The method of claim 12, wherein the sequence of video frames includes 5 video frames.

14. (previously presented): The method of claim 13, comprising correlating the upsampled video images.

15. (previously presented): The method of claim 14, comprising averaging a pixel intensity from each of the upsampled video frames.

16. (previously presented): The method of claim 15, comprising compensating for platform movement and rotation zoom.

17. (canceled)

18. (previously presented): The method of claim 16, comprising identifying commonality from one individual frame to the next and overlapping the individual frames and displaying an image representing a continuous area.

19. (previously presented): The method of claim 18, comprising extracting the sequence of video frames at 30 frames/sec.

20. (currently amended): A computer architecture, comprising:

extracting means for extracting a sequence of video frames;

upsampling means for upsampling each of the video frames;

interpolating means for interpolating the upsampled video frames;

detecting at least one region of interest in the video frames;

aligning the interpolated video frames using the detected at least one region of interest in the video frames; and

creating means for creating a single image from the aligned video frames.

21. (currently amended): An article, comprising:

at least one sequence of machine executable instructions;

a medium bearing the executable instructions in machine form, wherein execution of the instructions by one or more processors causes the one or more processors to:

extract a sequence of video frames;

upsample each of the video frames;  
interpolate the upsampled video frames;  
detect at least one region of interest in the video frames;  
align the interpolated video frames using the detected at least one region of interest in the video frames; and  
create a single image from the aligned video frames.

22. (currently amended): A computer system, comprising:  
a processor; and  
a memory coupled to said processor, the memory having stored therein sequences of instructions, which, when executed by said processor, causes said processor to perform the steps of:

extract a sequence of video frames;  
upsample each of the video frames;  
interpolate the upsampled video frames;  
detect at least one region of interest in the video frames;  
align the interpolated video frames using the detected at least one region of interest in the video frames; and  
create a single image from the aligned video frames.

23. (canceled)

24. (new) The computer-implemented method of claim 1, further comprising:  
determining a centroid for each detected region of interest in the video frames;  
comparing a determined centroid with a centroid of an adjacent video frame;  
if the difference between the compared centroids is below a preset error tolerance, setting a

frame-to-frame distance offset based on said compared centroid difference; and

wherein said aligning step includes aligning the interpolated video frames based on said set frame-to-frame distance offset.

25. (new) The computer-implemented method of claim 24, wherein said comparing step includes comparing pixel values within detected regions of interest; and

wherein said setting step includes setting said frame-to-frame distance offset based on said compared pixel values.

26. (new) The computer-implemented method of claim 24, wherein the detecting step includes counting the number of on pixels within a region of interest and comparing the number to a preset threshold value to determine a region of interest.